

ABSTRACT

Disclosed is a phosphor which is excited by a long wavelength light source in the ultraviolet region or blue-violet visible region and mainly emits light in violet-blue-yellow-red visible region. Also disclosed is a low-cost light-emitting diode which is easily mounted and excellent in color rendering properties. This light-emitting diode does not have much color change due to radiation angle. A phosphor composed of SiC is characterized in that it is excited by an outside light source for emitting light and doped with N and at least one of B and Al.